

a temperature transducer for measuring the vital temperature and outputting the vital temperature to the controller.

30. The cooling system of claim 29 further comprising:

5 a memory electrically connected to the chipset interface for storing at least a relation relating the fan control signal to the vital temperature.

31. The cooling system of claim 30 wherein the memory is a random access memory or a hard disk and is accessible by an operating system of the computer system.

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32. The cooling system of claim 30 wherein the memory is a BIOS memory accessible by a BIOS of the computer system during a POST or boot of the computer system.

33. The cooling system of claim 29 wherein the temperature transducer is an on-die thermal monitoring transistor of a CPU of the computer system.

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34. The cooling system of claim 29 further comprising a user interface electrically connected to the controller, the user interface comprising a display device and an input device for receiving control parameters from an external source; wherein the controller references the control parameters to generate the fan control signal.

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Abstract of Disclosure

A cooling system includes a cooling fan, a fan input-output module for transmitting a control signal to the fan for controlling the rotational speed of the fan, and a chipset interface for generating the fan control signal based on a change in a vital temperature of the computer system. Further provided is a controller for receiving the vital temperature and forwarding the vital temperature to the chipset interface, and a temperature transducer for generating the vital temperature and outputting the vital temperature to the controller. The chipset interface monitors a rotational speed of the cooling fan, and monitors a vital temperature of the computer system. The chipset interface then sets the fan power based on a change in the vital

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temperature. When the vital temperature decreases, the fan power is reduced to slow the fan, and when the vital temperature increases, the fan power is increased to speed the fan.

